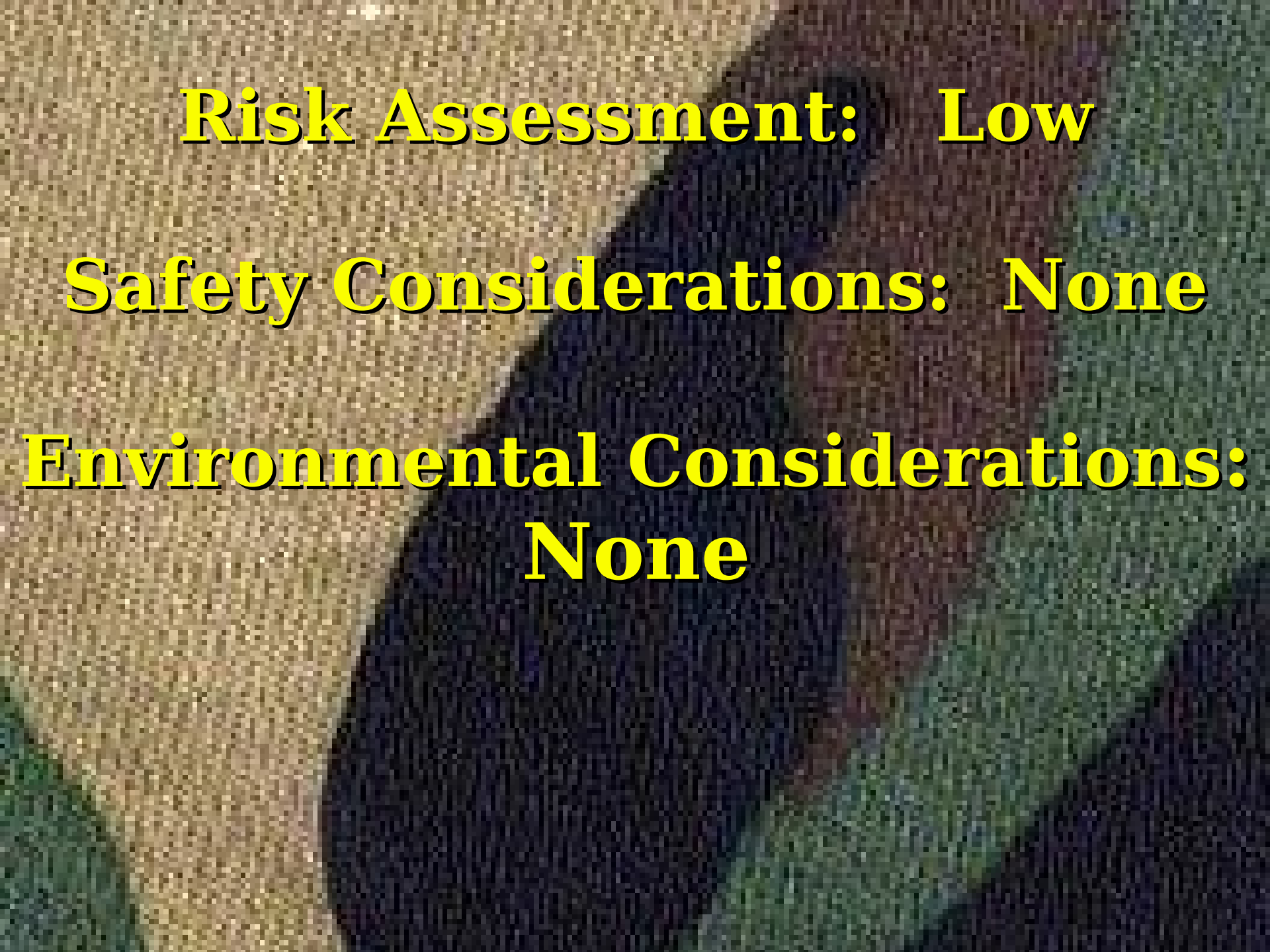
AVIATION PROTECTIVE
EQUIPMENT

TERMINAL LEARNING OBJECTIVE

ACTION: Employ aviation protective equipment

CONDITION: While performing as an aircrew member

STANDARD: In accordance with (IAW) AR 95-1, AR 670-1, TM 10-8400-201-23, TM 1-8415-216-23&P, and TM 1-8415-215-23&P


Risk Assessment: Low
Safety Considerations: None
Environmental Considerations: None

ENABLING LEARNING OBJECTIVE #1

ACTION: Identify the safety features provided by aviation protection equipment

CONDITION: Given a list

STANDARD: IAW U.S. Army Aeromedical Research Lab Report

AIRCRAFT PROTECTIVE
DEVICES

AIRCRAFT PROTECTIVE DEVICES

- Structural shell and landing gear
- Crashworthy seats
- Personnel restraint system
- Post crash factors

QUESTIONS

ENABLING LEARNING OBJECTIVE #2

ACTION: Identify the characteristics of and wear of flight clothing

CONDITION: Given a list

STANDARD: In accordance with AR 95-1, AR 670-1, TM 10-8400-201-23, TM 1-8415-215-12&P, TM 1-8415-215-216&P

CHARACTERISTICS &
WEAR OF
FLIGHT CLOTHING

UNDERGARMENTS

- Wear issue type
- 100% cotton
- 100% wool
- NOMEX material
- Any blend of the three

NOMEX CHARACTERISTICS

- Does not support combustion
- Chars between 700 and 800 degrees F.
- Does not melt or drip
- Good chemical resistance
- More durable than cotton

BOOT CHARACTERISTICS

- Retention
- Stability
- Protection for feet and ankles
- Fire retardancy

Wear of Boots

- Laced to top
- Avoid zippers, straps and jungle boots
- Jump boots

NOMEX FLIGHT GLOVES

- Insulation - Reduces heat transfer
- Comfort
- Sensitivity - Improves tactile identification

HGU-56/P HELMETS

- Replaced the SPH-4B (no longer authorized for aviation use by the Army)
- Custom fit by ALSE
- Dual visor / Better retention
- Ensure chin strap and nape strap are tight
- Earplugs or CEP’s

QUESTIONS

ENABLING LEARNING OBJECTIVE #3

- **ACTION: Identify the maintenance procedures for flight clothing**
- **CONDITION: Given a list**
- **STANDARD: In accordance with TM 10-8400-201-23, TM 1-8415-216-12&P and TM 1-8415-215-12&P**

MAINTAINING FLIGHT
CLOTHING

CARE OF THE NOMEX FLIGHT SUIT

- Avoid unnecessary wear during ground duties
- Avoid contact with POL products
- Wash on a permanent press cycle
- DO NOT BLEACH or STARCH

CARE OF THE NOMEX FLIGHT SUIT

- Wash and dry at temps less than 180 °
- Fabric Softener
- Dry clean if necessary
- NOMEX may be ironed but do not iron the Velcro tabs

CARE OF NOMEX FLIGHT GLOVES

- Avoid unnecessary contact with POL products (preflight)
- Wash gloves with mild soap
- Wash at temps less than 120 °
- Dry at room temp, in well ventilated area NEVER place leather palms in direct heat

HGU-56/P HELMETS

- All maintenance performed by ALSE
- Clean with mild soap and water
- Do not store in POV

QUESTIONS

ENABLING LEARNING OBJECTIVE #4

- **ACTION: Identify the miscellaneous apparel that is safe and unsafe**
- **CONDITION: Given a list**
- **STANDARD: IAW AR 95-1 and AR 670-1**

MISCELLANEOUS
APPAREL

MISCELLANEOUS APPAREL

- Rings can cause severe injuries
- Metal badges can cause electrical burns
- Foreign Object Damage (FOD)

QUESTIONS

- Aircraft protective devices
- Characteristic and wear of flight clothing

SUMMARY

- Maintenance procedure of flight clothing
- Miscellaneous apparel

CONCLUSION